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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	DEC 01	ChemPort single article sales feature unavailable
NEWS	3	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
NEWS	4	FEB 02	GENBANK enhanced with SET PLURALS and SET SPELLING
NEWS	5	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	6	FEB 10	COMPENDEX reloaded and enhanced
NEWS	7	FEB 11	WTEXTILES reloaded and enhanced
NEWS	8	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	9	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	10	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	11	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	12	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	13	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	14	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	15	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	16	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	17	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	18	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	19	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS	20	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	21	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	22	APR 07	STN is raising the limits on saved answers
NEWS	23	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	24	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	25	APR 28	CAS patent authority coverage expanded

NEWS 26 APR 28 ENCOMPLIT/ENCOMPLIT2 search fields enhanced
 NEWS 27 APR 28 Limits doubled for structure searching in CAS
 REGISTRY
 NEWS 28 MAY 08 STN Express, Version 8.4, now available
 NEWS 29 MAY 11 STN on the Web enhanced
 NEWS 30 MAY 11 BEILSTEIN substance information now available on
 STN Easy
 NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
 limits for exact sequence match searches and
 introduction of free HIT display format
 NEWS 32 MAY 15 INPADOCDB and INPAFAMDB enhanced with Chinese legal
 status data
 NEWS 33 MAY 28 CAS databases on STN enhanced with NANO super role in
 records back to 1992
 NEWS 34 JUN 01 CAS REGISTRY Source of Registration (SR) searching
 enhanced on STN

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
 AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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 specific topic.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 14:17:34 ON 01 JUN 2009

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=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                   ENTRY      SESSION
FULL ESTIMATED COST                0.22          0.22
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FILE 'REGISTRY' ENTERED AT 14:17:54 ON 01 JUN 2009
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Property values tagged with IC are from the ZIC/VINITI data file
 provided by InfoChem.

STRUCTURE FILE UPDATES: 31 MAY 2009 HIGHEST RN 1151391-70-6
 DICTIONARY FILE UPDATES: 31 MAY 2009 HIGHEST RN 1151391-70-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

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128-37-0
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FIELD CODE - 'AND' OPERATOR ASSUMED '75980-60-8(W)OR4'
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED 'OR4(W)128-37-0'
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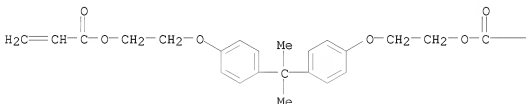
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L2      4 42594-17-2 OR 40220-08-4 OR 64401-02-8 OR 024650-42-8 OR 75980-6
        0-8 OR 128-37-0

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      8132 349
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 L4 1 SARTOMER 349/CN
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 RN 24447-78-7 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Propenoic acid, 1,1'-[(1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl)] ester (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propenoic acid, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester (9CI)
 CN Acrylic acid, diester with 2,2'-[isopropylidenebis(p-phenyleneoxy)]diethanol (8CI)
 CN Ethanol, 2,2'-[isopropylidenebis(p-phenyleneoxy)]di-, diacrylate (8CI)
 OTHER NAMES:
 CN 2,2-Bis(4-acryloxyethoxyphenyl)propane
 CN 2,2-Bis[4-(2-acryloxyethoxy)phenyl]propane
 CN Bisphenol A bis(2-hydroxyethyl ether) diacrylate
 CN Bisphenol A bis[2-(acryloxyloxy)ethyl] ether
 CN Bis[1-(2-acryloxy)-p-ethoxyphenyl]dimethylmethane]
 CN BR 800
 CN EB 952
 CN FM 300
 CN Kayarad FM 300
 CN Sartomer 349
 CN Sartomer SR 349
 CN Setalin AM 548
 CN Setalux UV 2246
 CN Setalux UV 2248
 CN SR 349
 DR 58458-00-7, 130340-91-9, 143550-30-5, 208666-27-7
 MF C25 H28 O6
 CI COM
 LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IRIUDB, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL, USPATOLD
 Other Sources: DSL**, EINECS**, TSCA**
 (**Enter CHEMLIST File for up-to-date regulatory information)

PAGE 1-A



$$\text{---CH=CH}_2$$

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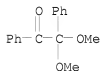
183 REFERENCES IN FILE CA (1907 TO DATE)
 22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 184 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s irgacure 651/cn
 L5 1 IRGACURE 651/CN

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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 24650-42-8 REGISTRY
 ED Entered SIN: 16 Nov 1984
 CN Ethanone, 2,2-dimethoxy-1,2-diphenyl- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzil dimethyl acetal (6CI)
 OTHER NAMES:
 CN α,α -Dimethoxy- α -phenylacetophenone
 CN α,α -Dimethoxydeoxybenzoin
 CN α,α -Dimethoxy- α -phenylacetophenone
 CN 1,2-Diphenyl-2,2-dimethoxyethanone
 CN 2,2-Dimethoxy-1,2-diphenyl-1-ethanone
 CN 2,2-Dimethoxy-1,2-diphenylethanone
 CN 2,2-Dimethoxy-2-phenylacetophenone
 CN 2,2-Dimethoxyphenylacetophenone
 CN 2-Phenyl-2,2-dimethoxyacetophenone
 CN Aronix C 101
 CN BDK
 CN Benzil dimethyl ketal
 CN Benzil mono(dimethyl acetal)
 CN Benzil mono(dimethyl ketal)
 CN Benzoin dimethyl ether
 CN C 101
 CN DMPA
 CN Esacure KB 1
 CN I 651
 CN IR 651
 CN IRG 651
 CN Irgacure 621
 CN Irgacure 641
 CN Irgacure 651
 CN Irgacure 654
 CN Irgacure 671
 CN Irgacure 951
 CN Irgacure E 651
 CN Irgacure I 651

CN Kayacure BDMK
 CN KB 1
 CN Lucirin BDK
 CN Micure BK 6
 CN Photomer 51
 CN Quantacure BDK
 DR 123584-60-1, 68072-91-3, 85568-54-3, 89697-37-0, 91234-65-0, 91274-91-8,
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 MF C16 H16 O3
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, CA, CAPLUS,
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM*,
 IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, PIRA, PROMT, RTECS*,
 SPECINFO, TOXCENTER, USPAT2, USPATFULL
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 Other Sources: DSL**, EINECS**, TSCA**
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3530 REFERENCES IN FILE CA (1907 TO DATE)
 17 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 3548 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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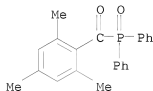
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 L2 4 S 42594-17-2 OR 40220-08-4 OR 64401-02-8 OR 024650-42-8 OR 7598
 L3 6 S SARTOMER 349
 L4 1 S SARTOMER 349/CN
 L5 1 S IRGACURE 651/CN

=> d 12 1-4

L2 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 75980-60-8 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN Methanone, (diphenylphosphinyl)(2,4,6-trimethylphenyl)- (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)- (9CI)
 OTHER NAMES:
 CN (2,4,6-Trimethylbenzoyl)diphenylphosphine oxide
 CN Chivacure TPO
 CN Darocur TPO

CN Darocure TPO
 CN Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 CN Genocure TPO
 CN Irgacure TPO
 CN L-TPO
 CN Lucirin 8893X
 CN Lucirin LR 8728
 CN Lucirin LR 8893
 CN Lucirin LR 8953
 CN Lucirin TPO
 CN Lucirin TPO Solid
 CN Lucirin TPO-X
 CN Photocure TPO
 CN Speedcure TPO
 CN TPO
 CN TPO-X
 DR 596818-40-5
 MF C22 H21 O2 P
 CI COM
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN,
 CSCHEM, MSDS-OHS, RTECS*, SPECINFO, TOXCENTER, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: DSL**, EINECS**, TSCA**
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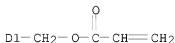
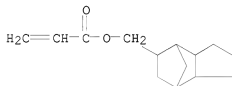


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 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1345 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 42594-17-2 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Propenoic acid, 1,1'-[(octahydro-4,7-methano-1H-indene-5,2-diyl)bis(methylene)] ester (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 2-Propenoic acid, (octahydro-4,7-methano-1H-indene-5,2-diyl)bis(methylene) ester (9CI)
 OTHER NAMES:
 CN 2-Propenoic acid, [octahydro-4,7-methano-1H-indene-1,5(1,6 or 2,5)diyl]bis(methylene) ester
 CN A-DCP
 CN Aronix M 203
 CN Bis(acryloyloxymethyl)tricyclo[5.2.1.02,6]decane
 CN Bis(hydroxymethyl)tricyclo[5.2.1.02,6]decane diacrylate
 CN DCP-A

CN Dicyclopentadienedimethanol diacrylate
 CN Dicyclopentylidimethylene diacrylate
 CN Dimethyloltricyclodecane diacrylate
 CN Ebecryl 130
 CN IRR 214
 CN IRR 214K
 CN Kayarad DCP-A
 CN Kayarad R 684
 CN Light Acrylate DCP-A
 CN M 203
 CN M 260
 CN NK Ester A-DCP
 CN R 684
 CN SA 1002
 CN Sinfony Activator
 CN Sinfony dentin
 CN SR 833
 CN SR 833S
 CN Tricyclodecanedimethanol diacrylate
 CN Yupimer SA 1002
 CN Yupimer UV-SA 1002
 DR 951693-72-4, 658700-25-5, 125175-93-1, 147392-96-9, 147392-97-0,
 79882-73-8, 181726-00-1, 205050-35-7, 491876-38-1
 MF C18 H24 O4
 CI IDS, COM
 LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, IFICDB, IFIPAT, IFIUDB,
 TOXCENTER, USPAT2, USPATFULL
 Other Sources: DSL**, EINECS**, TSCA**
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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 146 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 395 REFERENCES IN FILE CAPLUS (1907 TO DATE)

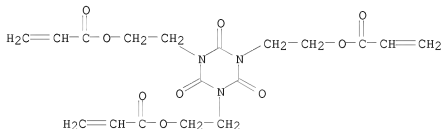
L2 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 40220-08-4 REGISTRY
 ED Entered STN: 16 Nov 1984
 CN 2-Propenoic acid, 1,1',1''-[(2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-
 triyl)tri-2,1-ethanediyl] ester (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Propenoic acid, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy1)tri-
2,1-ethanediyl ester (9CI)

OTHER NAMES:

CN A 9300
CN Aronix M 315
CN CN 936
CN Ebecryl IRR 264
CN FA 731A
CN Fancryl FA 731A
CN Genomer T 930
CN GX 8430
CN M 315
CN Newfrontier GX 8430
CN Newfrontier TEICA
CN NK Ester A 9300
CN Sartomer 368
CN Sartomer 369
CN Sartomer SR 368
CN SR 360
CN SR 368
CN THEICTA
CN Tris(β -acryloyloxyethyl) isocyanurate
CN Tris(2-acryloyloxyethyl) isocyanurate
CN Tris(2-hydroxyethyl) isocyanurate triacrylate
CN Tris(2-hydroxyethyl)isocyanuric acid triacrylate
CN Tris(acryloyloxyethyl) isocyanurate
CN Tris[2-(acryloyloxy)ethyl] isocyanurate
DR 98940-65-9, 115753-22-5, 112385-00-9, 76364-14-2, 116107-64-3, 182077-88-9
MF C18 H21 N3 O9
CI COM
LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CIN, CSCHEM, IFICDB,
IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL, USPATOLD
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

688 REFERENCES IN FILE CA (1907 TO DATE)
152 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
689 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 4 REGISTRY COPYRIGHT 2009 ACS on STN
RN 128-37-0 REGISTRY

ED Entered STN: 16 Nov 1984
 CN Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- (CA INDEX NAME)
 OTHER NAMES:
 CN 2,6-Bis(1,1-dimethylethyl)-4-methylphenol
 CN 2,6-Bis(tert-butyl)-4-methylphenol
 CN 2,6-Di(tert-butyl)hydroxytoluene
 CN 2,6-Di-tert-butyl-4-cresol
 CN 2,6-Di-tert-butyl-4-hydroxytoluene
 CN 2,6-Di-tert-butyl-4-methyl-1-hydroxybenzene
 CN 2,6-Di-tert-butyl-4-methylhydroxybenzene
 CN 2,6-Di-tert-butyl-4-methylphenol
 CN 2,6-Di-tert-butyl-p-cresol
 CN 2,6-Di-tert-butyl-p-cresol
 CN 2,6-Di-tert-butyl-p-cresole
 CN 2,6-Di-tert-butyl-p-methylphenol
 CN 2,6-Di-tert-butylcresol
 CN 2,6-Di-tert-butylmethylphenol
 CN 2,6-tert-Butyl-4-methylphenol
 CN 3,5-Di-tert-butyl-4-hydroxytoluene
 CN 3,5-Di-tert-butyl-p-hydroxytoluene
 CN 4-Hydroxy-3,5-di-tert-butyltoluene
 CN 4-Methyl-2,6-bis(1,1-dimethylethyl)phenol
 CN 4-Methyl-2,6-di-tert-butylphenol
 CN Advastab 401
 CN Agidol
 CN Agidol 1
 CN Agidol 1A
 CN Alkofen BP
 CN Antage BHT
 CN Antioxidant 246
 CN Antioxidant 264
 CN Antioxidant 29
 CN Antioxidant 30
 CN Antioxidant 4
 CN Antioxidant 4K
 CN Antioxidant DBPC
 CN Antioxidant KB
 CN Antioxidant MPJ
 CN Antioxidant T 501
 CN Antox QT
 CN AO 29
 CN AO 4
 CN AO 4K
 CN AOX 4
 CN AOX 4K
 CN B-NOX BHT-P
 CN BAT
 CN BHT
 CN BHT 264
 CN BHT Swanox
 CN BHT-C
 CN Buks
 CN Butylated hydroxytoluene
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 DISPLAY
 DR 53571-70-3, 58500-82-6, 97123-41-6, 102962-45-8, 50641-99-1, 36631-28-4,
 83047-16-9, 42615-30-5, 50356-19-9, 52683-46-2, 259752-53-9, 290348-23-1

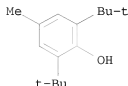
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LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, PHAR, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL (*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

17196 REFERENCES IN FILE CA (1907 TO DATE)
 143 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 17259 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s 42594-17-2/crn and 40220-08-4/crn and 24447-78-7/crn

1064 42594-17-2/CRN

1033 40220-08-4/CRN

279 24447-78-7/CRN

L6 1 42594-17-2/CRN AND 40220-08-4/CRN AND 24447-78-7/CRN

=> d

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN

RN 866129-61-5 REGISTRY

ED Entered STN: 26 Oct 2005

CN 2-Propenoic acid, (2,4,6-trioxo-1,3,5-triazine-1,3,5(2H,4H,6H)-triy1)tri-
 2,1-ethanediyl ester, polymer with Ebecryl 8402,
 α -hydro-o-(3-mercapto-1-oxopropoxy)poly(oxy-1,2-ethanediyl)
 ether with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1),
 (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) di-2-propenoate
 and (octahydro-4,7-methano-1H-indene-5,?-diyl)bis(methylene)
 di-2-propenoate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN Ebecryl 8402-ethoxylated trimethylolpropane

tris-3-mercaptopropionate-Sartomer 349-Sartomer 368-SR 833s copolymer

MF (C25 H28 O6 . C18 H24 O4 . C18 H21 N3 O9 . (C2 H4 O)n (C2 H4 O)n (C2 H4 O)n C15 H26 O6 S3 . Unspecified)x

CI PMS

PCT Manual component, Polyacrylic, Polyether, Polyother

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

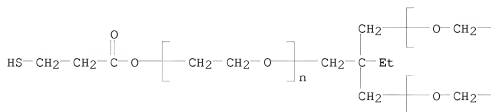
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CRN 345352-19-4

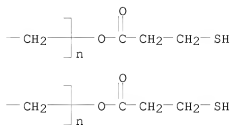
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CCI PMS

PAGE 1-A



PAGE 1-B



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CMF Unspecified

CCI PMS, MAN

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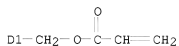
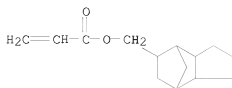
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CMF C18 H24 O4

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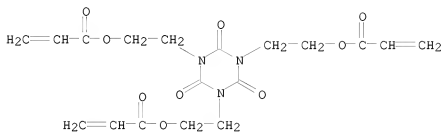
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CRN 40220-08-4

CMF C18 H21 N3 O9

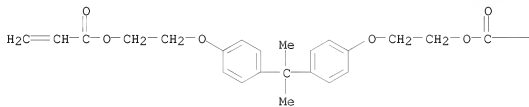


CM 5

CRN 24447-78-7

CMF C25 H28 O6

PAGE 1-A



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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s ebecryl 8402/cn
L7 1 EBECRYL 8402/CN

=> d

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN
RN 183449-62-9 REGISTRY
ED Entered STN: 27 Nov 1996
CN Ebecryl 8402 (CA INDEX NAME)
OTHER NAMES:
CN EB 8402
CN EBC 8402
CN Ebecryl EB 8402
ENTE An aliphatic urethane acrylate (Cray Valley)
MF Unspecified
CI PMS, COM, MAN
PCT Manual registration
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
32 REFERENCES IN FILE CA (1907 TO DATE)
8 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
32 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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FULL ESTIMATED COST	64.96	65.18

FILE 'CAPLUS' ENTERED AT 14:25:03 ON 01 JUN 2009
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FILE COVERS 1907 - 1 Jun 2009 VOL 150 ISS 23
 FILE LAST UPDATED: 31 May 2009 (20090531/ED)
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC)
 reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate

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=> d his

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FILE 'REGISTRY' ENTERED AT 14:17:54 ON 01 JUN 2009

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L2      4 S 42594-17-2 OR 40220-08-4 OR 64401-02-8 OR 024650-42-8 OR 7598
L3      6 S SARTOMER 349
L4      1 S SARTOMER 349/CN
L5      1 S IRGACURE 651/CN
L6      1 S 42594-17-2/CRN AND 40220-08-4/CRN AND 24447-78-7/CRN
L7      1 S EBECRYL 8402/CN

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L8 1 L6

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L8  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2009 ACS on SIN
AN  2005:1075719  CAPLUS
DN  143:368247
ED  Entered STN:  07 Oct 2005
TI  Photocurable compositions suitable for optical molding
IN  Patel, Ranjana C.; Rhodes, Michael; Zhao, Yong
PA  Huntsman Advanced Materials Switzerland G.m.b.H., Switz.
SO  PCT Int. Appl., 42 pp.
    CODEN: PIXXD2
DT  Patent
LA  English
IC  ICM B29C067-00
    ICS G03F007-027; B29K033-00
CC  38-2 (Plastics Fabrication and Uses)
FAN.CNT 1

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	WO 2005092598	A1	20051006	WO 2005-EP51287	20050321

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2557226 A1 20051006 CA 2005-2557226 20050321
 EP 1727663 A1 20061206 EP 2005-729543 20050321

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR

CN 1933961 A 20070321 CN 2005-80009111 20050321
 JP 2007530724 T 20071101 JP 2007-504410 20050321
 IN 2006DN04957 A 20070713 IN 2006-DN4957 20060829
 KR 2007005638 A 20070110 KR 2006-719508 20060921
 US 20070205528 A1 20070906 US 2006-593746 20060922

PRAI EP 2004-251653 A 20040322
 WO 2005-EP51287 W 20050321

CLASS

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	ECLA	G03F007/00S; G03F007/038; L29C; L29C
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FTERM 4F213/AA21; 4F213/AA39; 4F213/AA44; 4F213/AB03;
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 4F213/WL23; 4F213/WL95; 4J031/BA28; 4J031/BA29;
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 ECLA G03F007/00S; G03F007/038; L29C; L29C
 US 20070205528 IPCI A61C0013-00 [I,A]
 NCL 264/016.000

AB An optical molding process comprises the sequential steps of (a)(y) forming a layer of a photocurable composition and (b)(z) irradiating selected areas of the composition in the layer with radiation, curing the composition in the selected areas and repeating the steps (a) and (b) on top of an earlier cured layer to form a 3-dimensional structure, where the radiation source used in step (b) is a noncoherent source of radiation and where the photocurable composition comprises ≥ 2 curable components: (i) 45-95% (and preferably $\geq 50\%$, more preferably $\geq 70\%$) component that is photocurable and that is such that, when cured in the presence of a photocuring initiator by exposure to UV radiation (30 mJ/cm²), $\geq 90\%$ of the component is cured within 50 ms, and (ii) 5-55% (and preferably 10-40%, more preferably 15-30%, e.g. approx. 20%) component that results in the composition, on curing, shrinking in a linear direction by $< 3\%$ and preferably that results in the composition having, after cure, a Tg $> 50^\circ\text{C}$, preferably $\geq 100^\circ\text{C}$ and more preferably $\geq 120^\circ\text{C}$.

ST rapid prototyping acrylic polythiol photopolymer blend UV cure

IT Stereolithography
 (UV-based; of photocurable compns. for optical moldings)

IT Molding of plastics and rubbers
 (optical, layerwise; of photocurable compns. for optical moldings)

IT Acrylic polymers, uses
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (photocurable compns. for optical moldings)

IT Thiols, uses
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polythiols; photocurable compns. for optical moldings)

IT 866129-61-5P, Ebecryl 8402-ethoxylated Trimethylolpropane tris-3-mercaptopropionate-Sartomer 349-Sartomer 368-SR 833s copolymer 866129-63-7P, Sartomer 349-UVACURE 1500-UVR 6000 copolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (photocurable compns. for optical moldings)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ciba Geigy Ag; DE 4440819 A 1995 CAPLUS
- (2) Dicon, A; WO 0021735 A 2000
- (3) Dsm Ip Assets B V; EP 1477511 A 2004 CAPLUS
- (4) Ivoclar Vivadent Ag; EP 1243231 A 2002 CAPLUS
- (5) Loctite Corp; EP 0492953 A 1992 CAPLUS
- (6) Miller, L; US 5250391 A 1993 CAPLUS
- (7) Miller, L; US 5397662 A 1995
- (8) Mitsubishi Chemical Corporation; EP 1275668 A 2003 CAPLUS

10/593,746

(9) Moyer, J; US 4230740 A 1980 CAPLUS
(10) Paul, K; WO 0055272 A 2000 CAPLUS

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L15 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2005:1075719 CAPLUS
DN 143:368247
ED Entered STN: 07 Oct 2005
TI Photocurable compositions suitable for optical molding
IN Patel, Ranjana C.; Rhodes, Michael; Zhao, Yong
PA Huntsman Advanced Materials Switzerland G.m.b.H., Switz.
SO PCT Int. Appl., 42 pp.
CODEN: PIXXD2

DT Patent
 LA English
 IC ICM B29C067-00
 ICS G03F007-027; B29K033-00
 CC 38-2 (Plastics Fabrication and Uses)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	EP 1727663	A1	20061206	EP 2005-729543	20050321
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	IN 2006DN04957	A	20070713	IN 2006-DN4957	20060829
	KR 2007005638	A	20070110	KR 2006-719508	20060921
	US 20070205528	A1	20070906	US 2006-593746	20060922
PRAI	EP 2004-251653	A	20040322		
	WO 2005-EP51287	W	20050321		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
	WO 2005092598	ICM	B29C067-00
		ICS	G03F007-027; B29K033-00
		IPCI	B29C0067-00 [ICM,7]; G03F0007-027 [ICS,7]; B29K0033-00 [ICS,7]
		IPCR	B29C0035-08 [N,C*]; B29C0035-08 [N,A]; B29C0067-00 [I,C*]; B29C0067-00 [I,A]; G03F0007-00 [I,C*]; G03F0007-00 [I,A]; G03F0007-027 [I,C*]; G03F0007-027 [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A]
	CA 2557226	ECLA	G03F007/00S; G03F007/038; L29C; L29C
		IPCI	B29C0067-00 [I,A]; G03F0007-027 [I,A]
		IPCR	B29C0067-00 [I,C]; B29C0067-00 [I,A]; B29C0035-08 [N,C*]; B29C0035-08 [N,A]; G03F0007-00 [I,C*]; G03F0007-00 [I,A]; G03F0007-027 [I,C]; G03F0007-027 [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A]
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G03F0007-00 [I,C*]; G03F0007-00 [I,A]; G03F0007-027 [I,C]; G03F0007-027 [I,A]; G03F0007-038 [I,C*]; G03F0007-038 [I,A]

JP 2007530724 ECLA G03F007/00S; G03F007/038; L29C; L29C
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IN 2006DN04957 IPCI B29C0067-00 [ICM,7]
 KR 2007005638 IPCI G03F0007-027 [I,A]; B29C0067-00 [I,A]
 ECLA G03F007/00S; G03F007/038; L29C; L29C
 US 20070205528 IPCI A61C0013-00 [I,A]
 NCL 264/016.000

AB An optical molding process comprises the sequential steps of (a)(y) forming a layer of a photocurable composition and (b)(z) irradiating selected areas of the composition in the layer with radiation, curing the composition in the selected areas and repeating the steps (a) and (b) on top of an earlier cured layer to form a 3-dimensional structure, where the radiation source used in step (b) is a noncoherent source of radiation and where the photocurable composition comprises ≥ 2 curable components: (i) 45-95% (and preferably $\geq 50\%$, more preferably $\geq 70\%$) component that is photocurable and that is such that, when cured in the presence of a photocuring initiator by exposure to UV radiation (30 mJ/cm²), $\geq 90\%$ of the component is cured within 50 ms, and (ii) 5-55% (and preferably 10-40%, more preferably 15-30%, e.g. $\approx 20\%$) component that results in the composition, on curing, shrinking in a linear direction by $< 3\%$ and preferably that results in the composition having, after cure, a Tg $> 50^\circ\text{C}$, preferably $\geq 100^\circ\text{C}$ and more preferably $\geq 120^\circ\text{C}$.

ST rapid prototyping acrylic polythiol photopolymer blend UV cure
 IT Stereolithography
 (UV-based; of photocurable compns. for optical moldings)
 IT Molding of plastics and rubbers
 (optical, layerwise; of photocurable compns. for optical moldings)
 IT Acrylic polymers, uses
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (photocurable compns. for optical moldings)
 IT Thiols, uses
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (polythiols; photocurable compns. for optical moldings)
 IT 866129-61-5P, Ebecryl 8402-ethoxylated Trimethylolpropane tris-3-mercaptopropionate-Sartomer 349-Sartomer 368-SR 833s copolymer 866129-63-7P, Sartomer 349-UVACURE 1500-UVR 6000 copolymer
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (photocurable compns. for optical moldings)

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

- (1) Ciba Geigy Ag; DE 4440819 A 1995 CAPLUS
- (2) Dicon, A; WO 0021735 A 2000
- (3) Dam Ip Assets B V; EP 1477511 A 2004 CAPLUS
- (4) Ivoclar Vivadent Ag; EP 1243231 A 2002 CAPLUS
- (5) Loctite Corp; EP 0492953 A 1992 CAPLUS
- (6) Miller, L; US 5250391 A 1993 CAPLUS
- (7) Miller, L; US 5397662 A 1995
- (8) Mitsubishi Chemical Corporation; EP 1275668 A 2003 CAPLUS
- (9) Moyer, J; US 4230740 A 1980 CAPLUS
- (10) Paul, K; WO 0055272 A 2000 CAPLUS

L15 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1998:684925 CAPLUS

DN 129:303473

OREF 129:61899a,61902a

ED Entered STN: 29 Oct 1998

TI Circuit connecting materials, and structure and method of connecting circuit terminal

IN Watanabe, Itsuo; Fujinawa, Touru; Arifuku, Motohiro; Kanazawa, Houko; Kuwano, Atsusi

PA Hitachi Chemical Co., Ltd., Japan

SO PCT Int. Appl., 56 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

IC ICM C09J201-00

ICS C09J009-02; C09J161-00; C09J163-00; C08L101-00; C08L061-00; C08L063-00; C08K005-14; H01B001-20; H01L021-60

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 76

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	US 6777464	B1	20040817	US 1999-402274
	JP 2004128465	A	20040422	JP 2003-186397
	US 20040222408	A1	20041111	US 2004-860578
	JP 2005298828	A	20051027	JP 2005-116155
	JP 4265565	B2	20090520	
	JP 2005307210	A	20051104	JP 2005-116151
	JP 2005314696	A	20051110	JP 2005-116147
	JP 2005333119	A	20051202	JP 2005-116157
	JP 4016995	B2	20071205	
	US 20060014860	A1	20060119	US 2005-227186
	US 20060060969	A1	20060323	US 2005-227212
	US 20060063366	A1	20060323	US 2005-227231
	US 20070299172	A1	20071227	US 2007-841422
	US 20080054225	A1	20080306	US 2007-841532
PRAI	JP 1997-79422	A	19970331	
	JP 1997-79424	A	19970331	
	JP 1997-252933	A	19970918	
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	US 1999-402274	A3	19991216	
	JP 2003-186397	A3	20030630	
	US 2004-860578	A3	20040604	
	US 2005-227186	A3	20050916	

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9844067	ICM	C09J201-00
	ICS	C09J009-02; C09J161-00; C09J163-00; C08L101-00; C08L061-00; C08L063-00; C08K005-14; H01B001-20; H01L021-60
	IPCI	C09J0201-00 [ICM,6]; C09J0009-02 [ICS,6]; C09J0009-00 [ICS,6,C*]; C09J0161-00 [ICS,6]; C09J0163-00 [ICS,6]; C08L0101-00 [ICS,6]; C08L0061-00 [ICS,6]; C08L0063-00 [ICS,6]; C08K0005-14 [ICS,6]; C08K0005-00 [ICS,6,C*]; H01B0001-20 [ICS,6]; H01L0021-60 [ICS,6]; H01L0021-02 [ICS,6,C*]
	IPCR	C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C09J0201-00 [I,C*]; C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32 [I,A]
	ECLA	C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L
AU 9865207	IPCI	C09J0201-00 [ICM,6]; C09J0009-02 [ICS,6]; C09J0009-00 [ICS,6,C*]; C09J0161-00 [ICS,6]; C09J0163-00 [ICS,6]; C08L0101-00 [ICS,6]; C08L0061-00 [ICS,6]; C08L0063-00 [ICS,6]; C08K0005-14 [ICS,6]; C08K0005-00 [ICS,6,C*]; H01B0001-20 [ICS,6]; H01L0021-60 [ICS,6]; H01L0021-02 [ICS,6,C*]
	IPCR	C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A];

C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C09J0201-00 [I,C*]; C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32 [I,A]

EP 979854 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08L; M08L; M08L; M08L

IPCI C09J0201-00 [I,C]; C08K0005-00 [I,C]; C08L0061-00 [I,C]; C08L0063-00 [I,C]; C08L0101-00 [I,C]; C09J0009-00 [I,C]; C09J0161-00 [I,C]; C09J0163-00 [I,C]; C09J0163-02 [I,C]; C09J0171-00 [I,C]; H01B0001-20 [I,C]; H01L0021-02 [I,C]; H05K0003-32 [I,C]; C09J0201-00 [I,A]; C08K0005-14 [I,A]; C08L0061-00 [I,A]; C08L0063-00 [I,A]; C08L0101-00 [I,A]; C09J0009-02 [I,A]; C09J0161-00 [I,A]; C09J0163-00 [I,A]; C09J0163-02 [I,A]; C09J0171-00 [I,A]; H01B0001-20 [I,A]; H01L0021-60 [I,A]; H05K0003-32 [I,A]

IPCR C09J0201-00 [I,C]; C09J0201-00 [I,A]; C08K0005-00 [I,C]; C08K0005-14 [I,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C08L0061-00 [I,C]; C08L0061-00 [I,A]; C08L0063-00 [I,C]; C08L0063-00 [I,A]; C08L0101-00 [I,C]; C08L0101-00 [I,A]; C09J0009-00 [I,C]; C09J0009-02 [I,A]; C09J0161-00 [I,C]; C09J0161-00 [I,A]; C09J0163-00 [I,C]; C09J0163-00 [I,A]; C09J0163-02 [I,C]; C09J0163-02 [I,A]; C09J0171-00 [I,C]; C09J0171-00 [I,A]; C09J0201-06 [I,A]; H01B0001-20 [I,C]; H01B0001-20 [I,A]; H01L0021-02 [I,C]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C]; H05K0003-32 [I,A]

JP 3587859 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L

IPCI C09J0201-00 [ICM,7]; C08K0005-14 [ICS,7]; C08K0005-00 [ICS,7,C*]; C08L0061-00 [ICS,7]; C08L0063-00 [ICS,7]; C08L0101-00 [ICS,7]; C09J0009-02 [ICS,7]; C09J0009-00 [ICS,7,C*]; C09J0161-00 [ICS,7]; C09J0163-00 [ICS,7]; H01B0001-20 [ICS,7]; H01L0021-60 [ICS,7]; H01L0021-02 [ICS,7,C*]

IPCR C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C09J0201-00 [I,C*]; C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32 [I,A]

TW 229119 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L

IPCI C09J0007-00 [ICS,7]; H01L0021-00 [ICS,7]

IPCR C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C09J0201-00 [I,C*];

C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32 [I,A]

EP 1542273 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L

IPCI H01L0021-60 [ICM,7]; H01L0021-02 [ICM,7,C*]; C09J0157-00 [ICS,7]

IPCR C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C09J0157-00 [I,C*]; C09J0157-00 [I,A]; C09J0201-00 [I,C*]; C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01B0001-22 [I,C*]; H01B0001-22 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32 [I,A]

EP 1717851 ECLA C09J201/06; H01B001/20; H01B001/22; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L

IPCI H01L0021-60 [I,A]; H01L0021-02 [I,C*]; H01L0023-29 [I,A]; H01L0023-28 [I,C*]; H05K0003-32 [I,A]; C09J0201-00 [I,A]; C09J0009-02 [I,A]; C09J0009-00 [I,C*]; C09J0161-00 [I,A]; C09J0163-00 [I,A]; C08L0061-00 [I,A]; C08L0063-00 [I,A]; C08K0005-14 [I,A]; C08K0005-00 [I,C*]

IPCR H01L0021-02 [I,C]; H01L0021-60 [I,A]; C08K0005-00 [I,C]; C08K0005-14 [I,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C08L0061-00 [I,C]; C08L0061-00 [I,A]; C08L0063-00 [I,C]; C08L0063-00 [I,A]; C09J0009-00 [I,C]; C09J0009-02 [I,A]; C09J0157-00 [I,C*]; C09J0157-00 [I,A]; C09J0161-00 [I,C]; C09J0161-00 [I,A]; C09J0163-00 [I,C]; C09J0163-00 [I,A]; C09J0201-00 [I,C]; C09J0201-00 [I,A]; C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01B0001-22 [I,C*]; H01B0001-22 [I,A]; H01L0023-28 [I,C]; H01L0023-29 [I,A]; H05K0003-32 [I,C]; H05K0003-32 [I,A]

EP 1890324 ECLA C09J201/06; H01B001/20; H01B001/22; H01L021/60C4; H01L021/60D; H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L

IPCI H01L0021-60 [I,A]; H01L0021-02 [I,C*]; H01L0023-29 [I,A]; H01L0023-28 [I,C*]; H05K0003-32 [I,A]; C09J0201-00 [I,A]; C09J0009-02 [I,A]; C09J0009-00 [I,C*]; C09J0161-00 [I,A]; C09J0163-00 [I,A]; C08L0061-00 [I,A]; C08L0063-00 [I,A]; C08K0005-14 [I,A]; C08K0005-00 [I,C*]

IPCR H01L0021-02 [I,C]; H01L0021-60 [I,A]; C08K0005-00 [I,C]; C08K0005-14 [I,A]; C08K0005-521 [N,A]; C08L0009-00 [N,C*]; C08L0009-02 [N,A]; C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00 [N,C*]; C08L0021-00 [N,A]; C08L0061-00 [I,C]; C08L0061-00 [I,A]; C08L0063-00 [I,C]; C08L0063-00 [I,A]; C09J0009-00 [I,C]; C09J0009-02 [I,A]; C09J0161-00

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H01B0001-20 [I,A]; H01L0023-28 [I,C]; H01L0023-29
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US 6777464 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D;
H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L
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IPCR C08K0005-00 [N,C*]; C08K0005-14 [N,A]; C08K0005-521
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C08L0013-00 [N,C*]; C08L0013-00 [N,A]; C08L0021-00
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C09J0201-06 [I,A]; H01B0001-20 [I,C*]; H01B0001-20
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H01L0023-28 [I,C*]; H01L0023-29 [I,A]; H05K0003-32
[I,C*]; H05K0003-32 [I,A]

NCL 523/457.000; 257/E21.511; 257/E21.514; 257/E23.119;
523/458.000; 523/459.000; 524/502.000; 524/503.000;
525/245.000; 525/298.000; 525/445.000; 525/502.000

JP 2004128465 ECLA C09J201/06; H01B001/20; H01L021/60C4; H01L021/60D;
H01L023/29P; H05K003/32B2; M08K; M08K; M08L; M08L; M08L
IPCI H05K0003-32 [ICM,7]; C08G0065-40 [ICS,7]; C08G0065-00
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C09J0009-02 [ICS,7]; C09J0009-00 [ICS,7,C*];
C09J0011-06 [ICS,7]; C09J0011-02 [ICS,7,C*];
C09J0133-00 [ICS,7]; C09J0171-10 [ICS,7]; C09J0171-00
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C09J0201-06 [I,A]; H01B0001-20 [I,A]; H01B0001-20
[I,C*]; H01R0011-01 [I,A]; H01R0011-01 [I,C*];
H05K0003-32 [I,A]; H05K0003-32 [I,C*]

FTERM 4J005/AA24; 4J005/BD03; 4J040/DF011; 4J040/DF012;
4J040/DF031; 4J040/DF032; 4J040/DF081; 4J040/DF082;
4J040/EE061; 4J040/GA05; 4J040/GA07; 4J040/GA11;
4J040/HA026; 4J040/HA066; 4J040/HB41; 4J040/HD23;
4J040/JB02; 4J040/KA16; 4J040/KA32; 4J040/LA01;
4J040/LA07; 4J040/LA08; 4J040/LA09; 4J040/NA19;
4J040/NA20; 5E319/AA03; 5E319/AC02; 5E319/AC04;
5E319/BB11; 5G301/DA05; 5G301/DA10; 5G301/DA29;
5G301/DA42; 5G301/DD03

US 20040222408 IPCI H01C0001-00 [ICM,7]
IPCR H01B0001-20 [I,C*]; H01B0001-20 [I,A]; H01L0021-02
[I,C*]; H01L0021-60 [I,A]; H01L0023-28 [I,C*];
H01L0023-29 [I,A]; H05K0003-32 [I,C*]; H05K0003-32
[I,A]

NCL 252/500.000; 257/E21.511; 257/E21.514; 257/E23.119
ECLA H01B001/20; H01L021/60C4; H01L021/60D; H01L023/29P;
H05K003/32B2

JP 2005298828 IPCI C09J0004-00 [I,A]; C08F0283-06 [I,A]; C08F0283-00
[I,C*]; C09J0007-00 [I,A]; C09J0009-02 [I,A];

C09J0009-00 [I,C*]; C09J0171-10 [I,A]; C09J0171-00 [I,C*]; C09J0201-06 [I,A]; C09J0201-08 [I,A]; C09J0201-00 [I,C*]; H01B0001-20 [I,A]; H01R0011-01 [I,A]
 IPCR C08F0283-00 [I,C*]; C08F0283-06 [I,A]; C09J0004-00 [I,A]; C09J0004-00 [I,C*]; C09J0007-00 [I,A]; C09J0007-00 [I,C*]; C09J0009-00 [I,C*]; C09J0009-02 [I,A]; C09J0171-00 [I,C*]; C09J0171-10 [I,A]; C09J0201-00 [I,C*]; C09J0201-06 [I,A]; C09J0201-08 [I,A]; H01B0001-20 [I,A]; H01B0001-20 [I,C*]; H01R0011-01 [I,A]; H01R0011-01 [I,C*]
 FTERM 4J004/AA10; 4J004/AA12; 4J004/AA13; 4J004/AA15; 4J004/AA16; 4J004/AB05; 4J004/BA02; 4J004/FA05; 4J026/AA28; 4J026/AB01; 4J026/AB04; 4J026/AB07; 4J026/AB19; 4J026/AB28; 4J026/BA27; 4J026/BA28; 4J026/BA30; 4J026/BA40; 4J026/DB15; 4J026/GA08; 4J040/EE06; 4J040/FA10; 4J040/FA13; 4J040/FA14; 4J040/FA15; 4J040/FA18; 4J040/FA21; 4J040/FA23; 4J040/FA25; 4J040/FA26; 4J040/FA27; 4J040/FA28; 4J040/FA30; 4J040/HB41; 4J040/KA12; 4J040/KA16; 4J040/LA09; 4J040/NA19; 4J040/NA20; 5G301/DA05; 5G301/DA10; 5G301/DA29; 5G301/DA42; 5G301/DD03; 5G301/DD08
 JP 2005307210 IPCI C09J0007-00 [ICM,7]; C09J0009-02 [ICS,7]; C09J0009-00 [ICS,7,C*]; C09J0011-04 [ICS,7]; C09J0011-06 [ICS,7]; C09J0011-02 [ICS,7,C*]; C09J0109-00 [ICS,7]; C09J0109-02 [ICS,7]; C09J0113-00 [ICS,7]; C09J0133-02 [ICS,7]; C09J0171-10 [ICS,7]; C09J0171-00 [ICS,7,C*]; C09J0175-04 [ICS,7]; H01B0001-20 [ICS,7]; H01B0005-16 [ICS,7]; H05K0003-32 [ICS,7]; H05K0003-36 [ICS,7]
 FTERM 4J004/AA05; 4J004/AA10; 4J004/AA11; 4J004/AA14; 4J004/AB05; 4J004/BA02; 4J004/EA07; 4J004/FA05; 4J040/CA071; 4J040/CA101; 4J040/DF011; 4J040/EE061; 4J040/EF351; 4J040/EK031; 4J040/FA13; 4J040/FA14; 4J040/GA07; 4J040/HA066; 4J040/HB41; 4J040/JA09; 4J040/JB02; 4J040/KA11; 4J040/LA01; 4J040/LA05; 4J040/LA06; 4J040/LA09; 4J040/MA02; 4J040/NA19; 5E319/AA03; 5E319/AA07; 5E319/AB06; 5E319/AC01; 5E319/BB16; 5E319/CC12; 5E319/CD26; 5E319/GG15; 5E344/AA01; 5E344/AA22; 5E344/BB02; 5E344/CC21; 5E344/CD04; 5E344/DD06; 5E344/EE21; 5G301/DA03; 5G301/DA05; 5G301/DA12; 5G301/DA42; 5G301/DA59; 5G301/DA60; 5G301/DD03; 5G307/HA03; 5G307/HB03; 5G307/HC01; 5G307/HC02
 JP 2005314696 IPCI C09J0007-00 [ICM,7]; C09J0004-00 [ICS,7]; C09J0005-00 [ICS,7]; C09J0009-02 [ICS,7]; C09J0009-00 [ICS,7,C*]; C09J0011-06 [ICS,7]; C09J0011-02 [ICS,7,C*]; C09J0201-06 [ICS,7]; C09J0201-00 [ICS,7,C*]; H01B0001-20 [ICS,7]; H01B0005-16 [ICS,7]; H01R0011-01 [ICS,7]; H01R0043-00 [ICS,7]; H05K0001-14 [ICS,7]; H05K0003-32 [ICS,7]
 FTERM 4J004/AA01; 4J004/AA08; 4J004/AA12; 4J004/AA13; 4J004/AA15; 4J004/AA16; 4J004/AB05; 4J004/BA02; 4J004/DB02; 4J004/FA05; 4J040/CA072; 4J040/DD062; 4J040/DF002; 4J040/EB032; 4J040/EC002; 4J040/ED002; 4J040/EE062; 4J040/EG002; 4J040/FA101; 4J040/FA131; 4J040/FA21; 4J040/GA05; 4J040/GA07; 4J040/GA11;

4J040/GA13; 4J040/HA06; 4J040/HB36; 4J040/HB41;
 4J040/JA09; 4J040/JB02; 4J040/KA12; 4J040/KA32;
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 5G301/DA57; 5G301/DD03; 5G301/DD08; 5G307/HA02;
 5G307/HB01; 5G307/HB03; 5G307/HC01
 JP 2005333119 IPCI H01L0021-60 [I,A]; H01L0021-02 [I,C*]; C09J0005-06
 [I,A]; C09J0007-00 [I,A]; C09J0009-02 [I,A];
 C09J0009-00 [I,C*]; C09J0011-04 [I,A]; C09J0011-02
 [I,C*]; C09J0201-06 [I,A]; C09J0201-00 [I,C*];
 H05K0003-32 [I,A]; H01B0001-22 [N,A]
 IPCR C09J0007-00 [I,C*]; C09J0007-00 [I,A]; H01L0021-02
 [I,C]; H01L0021-60 [I,A]; C09J0005-06 [I,C];
 C09J0005-06 [I,A]; C09J0009-00 [I,C]; C09J0009-02
 [I,A]; C09J0011-02 [I,C]; C09J0011-04 [I,A];
 C09J0201-00 [I,C]; C09J0201-06 [I,A]; H01B0001-22
 [I,C*]; H01B0001-22 [I,A]; H01R0011-01 [I,C*];
 H01R0011-01 [I,A]; H05K0003-32 [I,C]; H05K0003-32 [I,A]
 FTERM 4J004/AA01; 4J004/AA13; 4J004/AB05; 4J004/BA03;
 4J004/FA05; 4J040/EC061; 4J040/FA132; 4J040/FA212;
 4J040/HA066; 4J040/HB41; 4J040/JA09; 4J040/JB02;
 4J040/JB10; 4J040/KA03; 4J040/KA11; 4J040/KA16;
 4J040/KA18; 4J040/KA32; 4J040/LA09; 4J040/MA02;
 4J040/NA20; 4J040/PB05; 4J040/PB08; 5E319/AA03;
 5E319/AB05; 5E319/AC01; 5E319/BB16; 5E319/CC12;
 5E319/CC61; 5E319/CD26; 5E319/GG15; 5F044/LL09;
 5F044/RR17; 5G301/DA03; 5G301/DA05; 5G301/DA06;
 5G301/DA10; 5G301/DA11; 5G301/DA12; 5G301/DA13;
 5G301/DA18; 5G301/DA42; 5G301/DD03
 US 20060014860 IPCI C08K0005-00 [I,A]
 IPCR C08K0005-00 [I,A]; C08K0005-00 [I,C]
 NCL 523/457.000
 ECLA C08G018/32A2; C08G018/08B6C; C08G018/28D6H;
 C08G018/38F3; C08G018/67B4+18/08B6C;
 C08G018/67B4+18/80B3D2C; C09D005/24; C09D175/16+B4B;
 M08K; M08K
 US 20060060969 IPCI H01L0023-52 [I,A]
 IPCR H01L0023-52 [I,A]; H01L0023-52 [I,C]
 NCL 257/746.000
 ECLA C08G018/32A2; C08G018/08B6C; C08G018/28D6H;
 C08G018/38F3; C08G018/67B4+18/08B6C;
 C08G018/67B4+18/80B3D2C; C09D005/24; C09D175/16+B4B;
 M08K; M08K
 US 20060063366 IPCI H01L0021-44 [I,A]; H01L0021-02 [I,C*]
 IPCR H01L0021-02 [I,C]; H01L0021-44 [I,A]
 NCL 438/613.000
 ECLA C08G018/32A2; C08G018/08B6C; C08G018/28D6H;
 C08G018/38F3; C08G018/67B4+18/08B6C;
 C08G018/67B4+18/80B3D2C; C09D005/24; C09D175/16+B4B;
 M08K; M08K
 US 20070299172 IPCI C08K0005-521 [I,A]; C08K0005-00 [I,C*]
 NCL 524/145.000; 524/115.000
 ECLA M08L; M08L
 US 20080054225 IPCI H01B0001-00 [I,A]; C08F0283-00 [I,A]

NCL 252/500.000; 525/418.000; 525/451.000
ECLA M08L; M08L

- AB The invention concerns a circuit connecting material to be interposed between circuit electrodes facing each other and, when the facing electrodes are pressed against each other, to elec. connect the electrodes in the pressing direction, which comprises as the essential ingredients (1) a hardener generating free radicals upon heating, (2) a hydroxylated resin having a mol. weight of 10,000 or higher, and (3) a radical-polymerizable substance; and a structure and method of connecting a circuit terminal by using the material. Mixing a 40% solution of PKHC (phenoxy resin) in PhMe/vinyl acetate mixture, 50, with Epolite 80MFA 50 and Percure HO (a peroxide) 5 g, combining the mixture with 3 vol% Ni-plated polystyrene particles as elec. conductors, coating on a 80- μ m PET polyester film and drying at 70° for 10 min gave an adhesive film for adhering flexible circuit board.
- ST elec circuit board adhering adhesive film; phenoxy resin adhesive radical polymn crosslinker; hydroxylated resin adhesive circuit board; conductive adhesive elec circuit bonding
- IT Synthetic rubber, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(acrylonitrile-butadiene-methacrylic acid, blend, Nipol 1072; circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Nitrile rubber, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(carboxy-terminated, blend, Hycar CTBNX 1009SE; circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Printed circuit boards
(circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Acrylic rubber
Phenoxy resins
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Adhesives
(conductive; circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Adhesive films
(elec. conductive; circuit connecting materials, and structure and method of connecting circuit terminal)
- IT Polymerization catalysts
(radical; in circuit connecting materials, and structure and method of connecting circuit terminal)
- IT 136662-27-6, Percure HO
RL: CAT (Catalyst use); USES (Uses)
(circuit connecting materials, and structure and method of connecting circuit terminal)
- IT 79-10-7D, 2-Propenoic acid, esters with phosphoric acid and glycol, uses 7664-38-2D, Phosphoric acid, esters with acrylic acid and glycol, uses 25068-38-6, PKHC 120123-31-1, Trihydroxyethyl glycol dimethacrylate homopolymer 214419-12-2 214419-26-8 214419-47-3 214419-51-9 214419-52-0
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or

engineered material use); USES (Uses)
 (circuit connecting materials, and structure and method of connecting
 circuit terminal)

IT 9003-53-6, Polystyrene
 RL: TEM (Technical or engineered material use); USES (Uses)
 (nickel-plated powder, elec. conductors; in circuit connecting
 materials, and structure and method of connecting circuit terminal)

IT 9003-18-3
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or
 engineered material use); USES (Uses)
 (nitrile rubber, carboxy-terminated, blend, Hycar CTBNX 1009SP; circuit
 connecting materials, and structure and method of connecting circuit
 terminal)

IT 7440-02-0, Nickel, uses
 RL: TEM (Technical or engineered material use); USES (Uses)
 (on polystyrene powder, elec. conductors; in circuit connecting
 materials, and structure and method of connecting circuit terminal)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Fuji Polymer Industries Co Ltd; JP 06295617 A 1994 CAPLUS
 (2) Soken Chemical Engineering Co Ltd; JP 08325543 A 1996 CAPLUS
 (3) Sumitomo Bakelite Co Ltd; JP 09169958 A 1997 CAPLUS
 (4) Sumitomo Bakelite Co Ltd; JP 09291259 A 1997 CAPLUS
 (5) Sumitomo Bakelite Co Ltd; JP 995652 A 1997

=> d his

(FILE 'HOME' ENTERED AT 14:17:34 ON 01 JUN 2009)

FILE 'REGISTRY' ENTERED AT 14:17:54 ON 01 JUN 2009

L1 2 S 42594-17-2 OR 40220-08-4 OR 64401-02-8 OR 024650-42-8 OR 7598
 L2 4 S 42594-17-2 OR 40220-08-4 OR 64401-02-8 OR 024650-42-8 OR 7598
 L3 6 S SARTOMER 349
 L4 1 S SARTOMER 349/CN
 L5 1 S IRGACURE 651/CN
 L6 1 S 42594-17-2/CRN AND 40220-08-4/CRN AND 24447-78-7/CRN
 L7 1 S EBECRYL 8402/CN

FILE 'CAPLUS' ENTERED AT 14:25:03 ON 01 JUN 2009

L8 1 S L6
 S 42594-17-2/CRN AND 40220-08-4/CRN AND 24447-78-7/CRN

FILE 'REGISTRY' ENTERED AT 14:25:42 ON 01 JUN 2009

L9 279 S 24447-78-7/CRN

FILE 'CAPLUS' ENTERED AT 14:25:43 ON 01 JUN 2009

L10 220 S L9

FILE 'REGISTRY' ENTERED AT 14:25:43 ON 01 JUN 2009

L11 1033 S 40220-08-4/CRN

FILE 'CAPLUS' ENTERED AT 14:25:43 ON 01 JUN 2009

L12 800 S L11

FILE 'REGISTRY' ENTERED AT 14:25:44 ON 01 JUN 2009

L13 1064 S 42594-17-2/CRN

FILE 'CAPLUS' ENTERED AT 14:25:44 ON 01 JUN 2009

L14 736 S L13

L15 2 S L14 AND L12 AND L10

=> s thiol and curl
 61650 THIOL
 4823 CURL

L16 5 THIOL AND CURL

=> d all 1-5

L16 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2009:86515 CAPLUS

DN 150:169806

ED Entered STN: 23 Jan 2009

TI Urethane bond-containing acrylic curable compositions with good
 curability, surface hardness, abrasion resistance, flexibility, bending
 property, and transparency

IN Urakawa, Yoshifumi; Ishii, Nobuaki; Tomita, Miyuki; Hattori, Yotaro;
 Ikeda, Haruhiko; Murofushi, Katsumi

PA Showa Denko K.K., Japan

SO PCT Int. Appl., 42pp.

CODEN: PIXXD2

DT Patent

LA Japanese

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 42, 74

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2009011211	A1	20090122	WO 2008-JP61636	20080626
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
PRAI JP 2007-184230	A	20070713		
JP 2008-113743	A	20080424		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2009011211	IPC1	C08G0075-04 [I,A]; C08G0075-00 [I,C*]; C09D0007-12 [I,A]; C09D0175-14 [I,A]; C09J0011-06 [I,A]; C09J0011-02 [I,C*]; C09J0175-14 [I,A]; G02B0001-04 [I,A]

AB Title curable comps. comprise a urethane compound
 CH2:CHR3OCOR1OOCNHR2OOCCHR4:CH2, a thiol compound, and a polymerization
 initiator, wherein R1 = linear or branched divalent aliphatic group, divalent
 organic group having alicyclic or aromatic ring, or [(CH2)aO(CH2)b]c; a, b =

- independently 1-10 integer; c = 1-5 integer; R2 = linear or branched divalent aliphatic group, divalent organic group having alicyclic or aromatic ring,
- or [(CH2)dO(CH2)e]f; d, e = independently 1-10 integer; f = 1-5 integer; and R3, R4 = independently H or Me. Thus, 100 parts 2-hydroxyethyl acrylate and 122 parts Karenz AOI were reacted in the presence of 2,6-di-tert-butyl-4-methylphenol to give a urethane bond-containing acrylic monomer, 98 parts of which was mixed with 2 parts Karenz MT PE 1 and 2 parts Irgacure 184, the resulting composition was applied on a glass substrate and irradiated with a high pressure mercury lamp to give a test piece, showing pencil hardness 3H, light transmittance 98.4%, good curability, and low curl.
- ST urethane bond contg acrylic curable compn curability surface hardness; abrasion resistance flexibility bending property transparency; hydroxyethyl acrylate Karenz reaction; oxopropenyloxyethylaminocarbonyloxyethyl acrylate prepn; thiol compd oxopropenyloxyethylaminocarbonyloxyethyl acrylate homopolymer coating
- IT Coating materials
(abrasion-resistant, anticorrosive; urethane bond-containing acrylic curable compns.)
- IT Polyurethanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic; urethane bond-containing acrylic curable compns.)
- IT Transparent materials
(adhesives; urethane bond-containing acrylic curable compns.)
- IT Transparent materials
(coatings; urethane bond-containing acrylic curable compns.)
- IT Acrylic polymers, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyurethane-; urethane bond-containing acrylic curable compns.)
- IT Adhesives
Coating materials
(transparent; urethane bond-containing acrylic curable compns.)
- IT Optical films
(urethane bond-containing acrylic curable compns.)
- IT Acrylic polymers, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(urethane bond-containing acrylic curable compns.)
- IT Thiols, uses
RL: MOA (Modifier or additive use); USES (Uses)
(urethane bond-containing acrylic curable compns.)
- IT 117804-97-4P 325147-27-1P 662112-57-4P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(monomer; urethane bond-containing acrylic curable compns.)
- IT 119591-68-3P 325147-30-6P 1103459-28-4P 1103459-31-9P 1104518-05-9P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(urethane bond-containing acrylic curable compns.)
 IT 31775-89-0, Karenz MT PE 1 594836-83-6, Karenz MT BD 1
 RL: MOA (Modifier or additive use); USES (Uses)
 (urethane bond-containing acrylic curable compns.)
 IT 818-61-1, 2-Hydroxyethyl acrylate 868-77-9, 2-Hydroxyethyl methacrylate
 13641-96-8, Karenz AOI 30674-80-7, Karenz MOI
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (urethane bond-containing acrylic curable compns.)
 RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
 (1) Dainippon Ink And Chemicals Inc; JP 200140039 A 2001
 (2) Mitsubishi Rayon Co Ltd; JP 63-199210 A 1988 CAPLUS
 (3) Mitsubishi Rayon Co Ltd; JP 2003221420 A 2003 CAPLUS
 (4) Nippon Kayaku Co Ltd; JP 2004238481 A 2004 CAPLUS
 (5) Showa Denko Kabushiki Kaisha; JP 63-234032 A 1988 CAPLUS
 (6) Showa Denko Kabushiki Kaisha; WO 2007086461 A1 2007 CAPLUS

L16 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 2006:1229462 CAPLUS
 DN 146:12560
 ED Entered STN: 24 Nov 2006
 TI Hair treatment preparations containing acidic thiols as curl
 reinforcing agents
 IN Fujii, Masashi; Fujii, Toshifumi
 PA Japan
 SO Jpn. Kokai Tokkyo Koho, 7pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 CC 62-3 (Essential Oils and Cosmetics)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2006315976	A	20061124	JP 2005-138634	20050511
PRAI	JP 2005-138634		20050511		

CLASS

	PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP	2006315976	IPCI	A61K0008-00 [I,A]; A61Q0005-04 [I,A]
		IPCR	A61K0008-00 [I,C]; A61K0008-00 [I,A]; A61Q0005-04 [I,C]; A61Q0005-04 [I,A]
		FTERM	4C083/AC112; 4C083/AC122; 4C083/AC542; 4C083/AC771; 4C083/AC772; 4C083/AC781; 4C083/AC782; 4C083/AC851; 4C083/CC34; 4C083/DD23; 4C083/DD27; 4C083/EE25
AB	This invention relates to a curl-enhancing agent in permanent wave treatment which contains ≥ 2 thiol groups and ≥ 1 acidic group (carboxylic acid, phosphoric acid ester, sulfonic acid, sulfuric acid ester group). For example, a curl-enhancing solution contained dithioerythritol monosulfate 4, triethanolamine 0.5, perfumes q.s., and purified water balance to 100 %.		
ST	hair permanent wave enhancer acidic polythiol; dithioerythritol sulfate		
IT	hair permanent curl enhancer		
IT	Permanent wave-setting preparations (hair treatment preps. containing acidic thiols as curl reinforcing agents)		
IT	59-52-9, 2,3-Dimercapto-1-propanol	74-61-3	304-55-2, meso-2,3-Dimercaptosuccinic acid 496-74-2,

1,2-Dimercapto-4-methylbenzene 540-63-6, 1,2-Dimercaptoethane
 624-39-5, 1,4-Benzenedithiol 626-04-0, Dithioresorcinol 638-16-4,
 Trithiocyanuric acid 814-67-5, 1,2-Dimercaptopropane 928-98-3,
 1,5-Pentanedithiol 1072-71-5, Bismuthiol 1077-28-7, Thiostic acid
 1191-08-8, 1,4-Dimercaptobutane 1191-43-1, 1,6-Hexanedithiol
 2001-93-6, Dithiouracil 3483-12-3, DL-Dithiothreitol 5325-88-2,
 1,5-Dimercaptonaphthalene 5437-25-2, 2,6-Purinedithiol 6892-68-8,
 Dithioerythritol 14970-87-7, 3,6-Dioxo-1,8-octanedithiol 16096-97-2,
 L-Dithiothreitol 75464-52-7, 2,5-Diamino-1,4-benzenedithiol
 dihydrochloride 915392-65-3

RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
 (hair treatment preps. containing acidic thiols as curl
 reinforcing agents)

L16 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:582516 CAPLUS

DN 143:98506

ED Entered STN: 07 Jul 2005

TI Polyimide based adhesive compositions useful in flexible circuit
 applications, and compositions and methods relating thereto

IN Dueber, Thomas E.; West, Michael W. J.; Auman, Brian C.; Kasowski, Robert
 V.

PA E.I. Du Pont de Nemours and Company, USA

SO Eur. Pat. Appl., 17 pp.

CODEN: EPXXDW

DT Patent

LA English

IC ICM C08L083-14

ICS C08K005-00

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 76

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1550698	A2	20050706	EP 2004-27062	20041115
	EP 1550698	A3	20060208		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR, IS, YU				
	JP 2005194527	A	20050721	JP 2004-372026	20041222
PRAI	US 2003-533468P	P	20031230		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1550698	ICM	C08L083-14
	ICS	C08K005-00
	IPCI	C08L0083-14 [I,A]; C08L0083-00 [I,C*]; C08K0005-00 [I,A]
	IPCR	C08L0079-00 [I,C*]; C08L0079-08 [I,A]; C08L0083-00 [I,C]; C08L0083-14 [I,A]; B32B0027-08 [I,C*]; B32B0027-08 [I,A]; B32B0027-18 [I,C*]; B32B0027-18 [I,A]; C08G0065-00 [I,C*]; C08G0065-336 [I,A]; C08G0077-00 [I,C*]; C08G0077-455 [I,A]; C08K0005-00 [I,C]; C08K0005-00 [I,A]; C08K0005-34 [N,A]; C08L0063-00 [I,C*]; C08L0063-00 [I,A]; C08L0071-00 [I,C*]; C08L0071-02 [I,A]; C08L0083-10 [I,A]; C09D0183-10 [I,C*]; C09D0183-10 [I,A]; C09J0007-00

[I,C*]; C09J0007-00 [I,A]; C09J0011-00 [I,C*];
C09J0011-00 [I,A]; C09J0179-00 [I,C*]; C09J0179-08
[I,A]; C09J0183-00 [I,C*]; C09J0183-10 [I,A];
H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H05K0001-00
[N,C*]; H05K0001-00 [N,A]; H05K0001-03 [I,C*];
H05K0001-03 [I,A]; H05K0003-28 [I,C*]; H05K0003-28
[I,A]; H05K0003-38 [I,C*]; H05K0003-38 [I,A];
H05K0003-46 [I,C*]; H05K0003-46 [I,A]

ECLA B32B027/08; B32B027/18; C08G065/336; C08G077/455;
C08K005/00P8+L83/14; C08L063/00+B4Z; C08L071/02+B4Z;
C08L083/10+B4; C09D183/10; H05K001/03C2E; H05K003/38D;
M08K; M08L; T05K; T05K; T05K; T05K; T05K

JP 2005194527 IPCI C08L0079-08 [ICM,7]; C08L0079-00 [ICM,7,C*];
C09J0007-00 [ICS,7]; C09J0011-00 [ICS,7]; C09J0179-08
[ICS,7]; C09J0179-00 [ICS,7,C*]; C09J0183-10 [ICS,7];
C09J0183-00 [ICS,7,C*]; H01L0021-60 [ICS,7];
H01L0021-02 [ICS,7,C*]; H05K0001-03 [ICS,7];
H05K0003-28 [ICS,7]; H05K0003-46 [ICS,7]

IPCR C08L0079-00 [I,C*]; C08L0079-08 [I,A]; B32B0027-08
[I,C*]; B32B0027-08 [I,A]; B32B0027-18 [I,C*];
B32B0027-18 [I,A]; C08G0065-00 [I,C*]; C08G0065-336
[I,A]; C08G0077-00 [I,C*]; C08G0077-455 [I,A];
C08K0005-00 [I,C*]; C08K0005-00 [I,A]; C08K0005-34
[N,A]; C08L0063-00 [I,C*]; C08L0063-00 [I,A];
C08L0071-00 [I,C*]; C08L0071-02 [I,A]; C08L0083-00
[I,C*]; C08L0083-10 [I,A]; C08L0083-14 [I,A];
C09D0183-10 [I,C*]; C09D0183-10 [I,A]; C09J0007-00
[I,C*]; C09J0007-00 [I,A]; C09J0011-00 [I,C*];
C09J0011-00 [I,A]; C09J0179-00 [I,C*]; C09J0179-08
[I,A]; C09J0183-00 [I,C*]; C09J0183-10 [I,A];
H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H05K0001-00
[N,C*]; H05K0001-00 [N,A]; H05K0001-03 [I,C*];
H05K0001-03 [I,A]; H05K0003-28 [I,C*]; H05K0003-28
[I,A]; H05K0003-38 [I,C*]; H05K0003-38 [I,A];
H05K0003-46 [I,C*]; H05K0003-46 [I,A]

FTERM 4J002/CD052; 4J002/CM041; 4J002/CP171; 4J002/DH057;
4J002/EH096; 4J002/EH146; 4J002/EV286; 4J002/EW046;
4J002/EW047; 4J002/EW157; 4J002/FD026; 4J002/FD137;
4J002/GJ01; 4J004/AA11; 4J004/AB03; 4J004/BA02;
4J004/EA06; 4J004/FA08; 4J040/EH031; 4J040/EK111;
4J040/HD21; 4J040/HD28; 4J040/JA09; 4J040/JB01;
4J040/KA36; 4J040/LA08; 4J040/MA10; 4J040/NA08;
4J040/NA20; 5E314/AA36; 5E314/AA42; 5E314/BB02;
5E314/BB11; 5E314/CC01; 5E314/DD06; 5E314/FF06;
5E314/FF19; 5E314/GG26; 5E346/AA16; 5E346/CC10;
5E346/CC32; 5E346/CC41; 5E346/EE12; 5E346/GG19;
5E346/GG27; 5E346/GG28; 5E346/HH16; 5F044/MM11

AB A low modulus polyimide adhesive composition comprises: i. 100 weight parts low modulus polyimidosiloxane component; ii. a thermosetting substantially non-halogenated epoxy adjuvant (optionally including an epoxy catalyst) comprising a plurality of epoxy moieties or derivs. of epoxy moieties, being present in a weight part amount within a range between and including any two of the following weight part quantities per 100 parts by weight of the polyimidosiloxane component: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 15, 18, 20, 25, 30, 35, 38, 40, 42, 45, 47, 48, 49, and 50; comprising less than or equal to 500, 100, 50, 25, 10, 5, or 0 ppm halogen; iii. a plasticizer, being present in a weight part amount within a range between and

including any two of the following weight part quantities per 100 parts by weight of the polyimidosiloxane component: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, and 80, and; iv. an insol. halogen-free flame-retardant filler in an amount of 2-100 parts by weight per 100 parts by weight of the polyimidosiloxane component; , and v. optionally an adhesion promoter. The adhesive can be applied upon (or incorporated into) flexible circuits using a relatively low lamination temperature, generally no higher than 200, 190, 180, 175, 170, 165, 160, 155, or 150°C. The adhesive is generally resistant to unwanted curl even in cases where the adhesive polyimide and the base film polyimide have a coefficient of linear thermal expansions (measured between 50° and 250°C) that differ by more than 10, 15, 20 25, or 30 ppm/°C.

- ST polyimidosiloxane epoxy adhesive printed circuit board
- IT Polybenzimidazoles
 - RL: MOA (Modifier or additive use); USES (Uses)
 - (adhesion promoter; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Polyimides, uses
 - RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 - (di-Me siloxane-polyether-; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Polyethers, uses
 - RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 - (di-Me siloxane-polyimide-; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Polysiloxanes, uses
 - RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 - (di-Me, polyether-polyimide-; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Recording materials
 - (disk drive; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Phenolic resins, uses
 - RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 - (epoxy, novolak; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Telephones
 - (mobile phone; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Epoxy resins, uses
 - RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
 - (phenolic, novolak; polyimide based adhesive compns. useful in flexible circuit applications)
- IT Adhesives
 - Computers
 - Laminated materials
 - Printed circuit boards
 - (polyimide based adhesive compns. useful in flexible circuit applications)
- IT 1330-78-5, Tricresyl phosphate
 - RL: TEM (Technical or engineered material use); USES (Uses)
 - (Lindol XP Plus, flame retardant; polyimide based adhesive compns.

useful in flexible circuit applications)

IT 95-14-7, 1H-Benzotriazole 583-39-1, 2-Mercaptobenzimidazole 1760-24-3, N-2-Aminoethyl-3-aminopropyltrimethoxysilane 2349-67-9, 5-Amino-1,3,4-thiadiazole-2-thiol 2530-83-8, 3-Glycidoxypropyltrimethoxysilane 2530-85-0, 3-Methacryloxypropyltrimethoxysilane 3179-31-5, 3MT 23779-32-0, N-(Triethoxysilylpropyl)urea

RL: MOA (Modifier or additive use); USES (Uses) (adhesion promoter; polyimide based adhesive compns. useful in flexible circuit applications)

IT 218768-84-4, Melapur 200

RL: TEM (Technical or engineered material use); USES (Uses) (flame-retardant filler; polyimide based adhesive compns. useful in flexible circuit applications)

IT 108727-35-1, DEN 438EK85

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polyimide based adhesive compns. useful in flexible circuit applications)

IT 857047-88-2

RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses) (polyimide; polyimide based adhesive compns. useful in flexible circuit applications)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Anon; EP 0604038 A2 CAPLUS

(2) Anon; US 5935372 A CAPLUS

L16 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:570549 CAPLUS

DN 143:98496

ED Entered STN: 01 Jul 2005

TI Polyimide based adhesive compositions useful in flexible circuit applications, compositions, and fabrication of laminate for electronic device

IN Dueber, Thomas E.; West, Michael W.; Auman, Brian C.; Kasowski, Robert V.

PA E. I. Du Pont De Nemours and Company, USA

SO U.S. Pat. Appl. Publ., 13 pp.

CODEN: USXXCO

DT Patent

LA English

IC ICM C08L063-00

ICS C08L083-04

INCL 525476000

CC 38-3 (Plastics Fabrication and Uses)

Section cross-reference(s): 37, 76

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 20050143534	A1	20050630	US 2004-892863	20040716
	US 7220490	B2	20070522		
	JP 2005194527	A	20050721	JP 2004-372026	20041222
PRAI	US 2003-533468P	P	20031230		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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US 20050143534	ICM	C08L063-00
	ICS	C08L083-04
	INCL	525476000
	IPCI	B32B0009-04 [I,A]
JP 2005194527	IPCR	C08L0063-00 [I,C*]; C08L0063-00 [I,A]; C08L0083-00 [I,C*]; C08L0083-04 [I,A]; B32B0009-04 [I,C]; B32B0009-04 [I,A]
	NCL	525/476.000; 428/447.000; 525/431.000
	IPCI	C08L0079-08 [ICM,7]; C08L0079-00 [ICM,7,C*]; C09J0007-00 [ICS,7]; C09J0011-00 [ICS,7]; C09J0179-08 [ICS,7]; C09J0179-00 [ICS,7,C*]; C09J0183-10 [ICS,7]; C09J0183-00 [ICS,7,C*]; H01L0021-60 [ICS,7]; H01L0021-02 [ICS,7,C*]; H05K0001-03 [ICS,7]; H05K0003-28 [ICS,7]; H05K0003-46 [ICS,7]
	IPCR	C08L0079-00 [I,C*]; C08L0079-08 [I,A]; B32B0027-08 [I,C*]; B32B0027-08 [I,A]; B32B0027-18 [I,C*]; B32B0027-18 [I,A]; C08G0065-00 [I,C*]; C08G0065-336 [I,A]; C08G0077-00 [I,C*]; C08G0077-455 [I,A]; C08K0005-00 [I,C*]; C08K0005-00 [I,A]; C08K0005-34 [N,A]; C08L0063-00 [I,C*]; C08L0063-00 [I,A]; C08L0071-00 [I,C*]; C08L0071-02 [I,A]; C08L0083-00 [I,C*]; C08L0083-10 [I,A]; C08L0083-14 [I,A]; C09D0183-10 [I,C*]; C09D0183-10 [I,A]; C09J0007-00 [I,C*]; C09J0007-00 [I,A]; C09J0011-00 [I,C*]; C09J0011-00 [I,A]; C09J0179-00 [I,C*]; C09J0179-08 [I,A]; C09J0183-00 [I,C*]; C09J0183-10 [I,A]; H01L0021-02 [I,C*]; H01L0021-60 [I,A]; H05K0001-00 [N,C*]; H05K0001-00 [N,A]; H05K0001-03 [I,C*]; H05K0001-03 [I,A]; H05K0003-28 [I,C*]; H05K0003-28 [I,A]; H05K0003-38 [I,C*]; H05K0003-38 [I,A]; H05K0003-46 [I,C*]; H05K0003-46 [I,A]
AB	FTERM	4J002/CD052; 4J002/CM041; 4J002/CP171; 4J002/DH057; 4J002/EH096; 4J002/EH146; 4J002/EV286; 4J002/EW046; 4J002/EW047; 4J002/EW157; 4J002/FD026; 4J002/FD137; 4J002/GJ01; 4J004/AA11; 4J004/AB03; 4J004/BA02; 4J004/EA06; 4J004/FA08; 4J040/EH031; 4J040/EK111; 4J040/HD21; 4J040/HD28; 4J040/JA09; 4J040/JB01; 4J040/KA36; 4J040/LA08; 4J040/MA10; 4J040/NA08; 4J040/NA20; 5E314/AA36; 5E314/AA42; 5E314/BB02; 5E314/BB11; 5E314/CC01; 5E314/DD06; 5E314/FF06; 5E314/FF19; 5E314/GG26; 5E346/AA16; 5E346/CC10; 5E346/CC32; 5E346/CC41; 5E346/EE12; 5E346/GG19; 5E346/GG27; 5E346/GG28; 5E346/HH16; 5F044/MM11
	The low modulus polyimide adhesive compns. contain a low modulus polyimidosiloxane polymer, a thermosetting substantially-nonhalogenated epoxy (optionally including an epoxy catalyst), a plasticizer, an insol. halogen-free flame-retardant filler, and optionally an adhesion promoter. The adhesive can be applied upon (or incorporated into) flexible circuits using a relatively low lamination temperature, generally $\leq 200, 190, 180, 175, 170, 165, 160, 155, \text{ or } 150^{\circ}\text{C}$. The adhesive is generally resistant to unwanted curl even in cases where the adhesive polyimide and the base film polyimide have a coefficient of linear thermal expansion (measured $50\text{--}250^{\circ}\text{C}$) that differ by $>10, 15, 20, 25, \text{ or } 30 \text{ ppm}/^{\circ}\text{C}$.	
	ST	polyimide siloxane blend epoxy adhesive flexible circuit; coverlay film polyimide based flexible circuit
	IT	Polybenzimidazoles

- RL: MOA (Modifier or additive use); USES (Uses)
(adhesion promoter; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Magnetic disks
(hard; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Telephones
(mobile phone; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Polyimides, miscellaneous
RL: MSC (Miscellaneous)
(polyether-, substrate; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Adhesion promoters
Computers
Fillers
Fireproofing agents
Plasticizers
Printed circuit boards
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Polyamic acids
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Epoxy resins, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Polyethers, miscellaneous
RL: MSC (Miscellaneous)
(polyimide-, substrate; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Polysiloxanes, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyimide-, polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Polyimides, uses
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polysiloxane-, polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT Adhesives
(sheets; polyimide based adhesive compns. useful in fabrication of

- curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 1330-78-5, Tricresyl phosphate
RL: MOA (Modifier or additive use); USES (Uses)
(Lindol XP Plus; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 95-14-7, 1H-Benzotriazole 583-39-1, 2-Mercaptobenzimidazole 1760-24-3, N-2-Aminoethyl-3-aminopropyltrimethoxysilane 2349-67-9, 5-Amino-1,3,4-thiadiazole-2-thiol 2530-83-8, 3-Glycidioxypropyltrimethoxysilane 2530-85-0, 3-Methacryloxypropyltrimethoxysilane 3179-31-5, 3MT 23779-32-0, N-(Triethoxysilylpropyl)urea
RL: MOA (Modifier or additive use); USES (Uses)
(adhesion promoter; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 15541-60-3, Melamine pyrophosphate
RL: MOA (Modifier or additive use); USES (Uses)
(filler; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 856045-04-0P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 218768-84-4, Melapur 200
RL: MOA (Modifier or additive use); USES (Uses)
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 108727-35-1, DEN 438EK85
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- IT 7440-50-8, Copper, miscellaneous 25036-53-7, Kapton
RL: MSC (Miscellaneous)
(substrate; polyimide based adhesive compns. useful in fabrication of curl-resistant laminate for electronic device and applied at moderate temperature)
- RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
- RE
- (1) Anon; JP 04023879 1992 CAPLUS
 - (2) Anon; EP 0604038 A 1994 CAPLUS
 - (3) Anon; JP 10212468 1998 CAPLUS
 - (4) Anon; Database WPI, Section CH, Week 199429 1994
 - (5) Anon; Database WPI, Section CH, Week 200332 2003
 - (6) Anon; Definitions of plasticizer, Webster's Dictionary, Concise Oxford Dictionary
 - (7) Dueber; US 5536620 A 1996 CAPLUS
 - (8) Dueber; US 5643657 A 1997 CAPLUS
 - (9) Dueber; US 5728505 A 1998 CAPLUS
 - (10) Dueber; US 6218074 B1 2001 CAPLUS

(11) Furukawa; US 5747625 A 1998 CAPLUS
 (12) Hiramoto; US 4243743 A 1981 CAPLUS
 (13) Ishikawa; US 6117510 A 2000 CAPLUS
 (14) Ishikawa; US 6468639 B2 2002 CAPLUS
 (15) Jacobson; US 6015510 A 2000 CAPLUS
 (16) Lynch; US 6274662 B1 2001 CAPLUS
 (17) Masaki; US 5326792 A 1994 CAPLUS
 (18) Rojstaczer; US 5935372 A 1999 CAPLUS
 (19) Sugo; US 6538093 B2 2003 CAPLUS
 (20) Tokuhisa; US 5916688 A 1999 CAPLUS
 (21) Tsuji; US 6693162 B2 2004 CAPLUS
 (22) Watanabe; US 4937133 A 1990 CAPLUS
 (23) Yoshioka; US 6329050 B1 2001 CAPLUS
 (24) Zhao; US 5859181 A 1999 CAPLUS
 (25) Zhao; US 5942592 A 1999 CAPLUS

L16 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1995:896120 CAPLUS

DN 123:288272

OREF 123:51637a,51640a

ED Entered STN: 04 Nov 1995

TI Photocurable norbornene-based compositions for use in stereolithography
 IN Steinmann, Bettina; Schulthess, Adrian; Wolf, Jean-Pierre; Hunziker, Max
 PA Ciba-Geigy A.-G., Switz.

SO Ger. Offen., 16 pp.

CODEN: GWXXBX

DT Patent

LA German

IC ICM C08F020-20

ICS C08F020-36; C08F020-50; C08F020-38; G03F007-028; C08G063-91;
 C08G018-83; C08G063-672; C08G018-67; C09D133-14; C09D167-07;
 C09D175-16

ICA C09J004-02; C08G063-16; C08G063-40; C08G018-10; C08G018-48

CC 37-6 (Plastics Manufacture and Processing)

Section cross-reference(s): 74

FAN.CNT 1

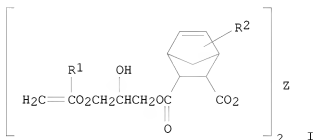
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4440819	A1	19950524	DE 1994-4440819	19941115
PRAI	CH 1993-3465	A	19931119		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 4440819	ICM	C08F020-20
	ICS	C08F020-36; C08F020-50; C08F020-38; G03F007-028; C08G063-91; C08G018-83; C08G063-672; C08G018-67; C09D133-14; C09D167-07; C09D175-16
	ICA	C09J004-02; C08G063-16; C08G063-40; C08G018-10; C08G018-48
	IPCI	C08F0020-20 [ICM,6]; C08F0020-36 [ICS,6]; C08F0020-50 [ICS,6]; C08F0020-38 [ICS,6]; C08F0020-00 [ICS,6,C*]; G03F007-028 [ICS,6]; C08G0063-91 [ICS,6]; C08G0018-83 [ICS,6]; C08G0063-672 [ICS,6]; C08G0018-67 [ICS,6]; C09D0133-14 [ICS,6]; C09D0167-07 [ICS,6]; C09D0167-06 [ICS,6,C*]; C09D0175-16 [ICS,6]; C09D0175-14 [ICS,6,C*]; C09J0004-02 [ICA,6]; C08G0063-16 [ICA,6]; C08G0063-40 [ICA,6]; C08G0063-00 [ICA,6,C*];

C08G0018-10 [ICA,6]; C08G0018-48 [ICA,6]; C08G0018-00 [ICA,6,C*]
 IPCR C08F0020-00 [I,C*]; C08F0020-30 [I,A]; C08G0018-00 [I,C*]; C08G0018-48 [I,A]; C08G0018-67 [I,A]; C08G0018-83 [I,A]; C08G0063-00 [I,C*]; C08G0063-676 [I,A]; C09D0167-06 [I,C*]; C09D0167-07 [I,A]; C09D0175-14 [I,C*]; C09D0175-16 [I,A]; G03F0007-00 [I,C*]; G03F0007-00 [I,A]; G03F0007-027 [I,C*]; G03F0007-027 [I,A]
 ECLA C08F020/30; C08G018/48B; C08G018/67B2; C08G018/67B2+18/48; C08G018/83D2; C08G063/676; C09D167/07; C09D175/16; G03F007/00S; G03F007/027; G03F007/027H

GI



AB The title compns., with low curl factor, contain the di(meth)acrylates I (R1 = H, Me; R2 = H, alkyl, alkenyl; Z = bivalent aliphatic, cycloaliph., aromatic, or araliph. group or linking group of specified structure), polythiols, and photoinitiators. A mixture of I [R1 = H, R2 = Me, Z = (CH2)4] 76.1, pentaerythritol tetrakis(3-mercaptopropionate) 19.9, 1-benzoylcyclohexanol 3.85, and antioxidant 0.15 parts (viscosity 1.23 Pa-s at 30°) was cured by a He-Cd laser (40 mJ/cm2) to a preform [elastic modulus (Me) 4.6 N/mm2] which was completely cured by a UV-visible lamp to a molding with Me 754 N/mm2 and elongation 14.4%.

ST photocurable compn stereolithog; thiol polyhydric photocurable compn; pentaerythritol mercaptopropionate photocurable compn; norbornene deriv acrylate photocurable; methacrylate norbornene deriv photocurable

IT Thiols, uses
 RL: TEM (Technical or engineered material use); USES (Uses) (poly-, photocurable norbornene-based compns. for use in stereolithog.)

IT Urethane polymers, uses
 RL: TEM (Technical or engineered material use); USES (Uses) (polyoxyalkylene-, allyl group-terminated; photocurable norbornene-based compns. for use in stereolithog.)

IT Lithography
 (stereo-, photocurable norbornene-based compns. for use in stereolithog.)

IT 9042-77-7D, allyl group-terminated 169909-01-7 169909-03-9
 169970-65-4 170081-98-8 170082-01-6 170082-02-7 170082-03-8
 170082-04-9

10/593,746

RL: TEM (Technical or engineered material use); USES (Uses)
(photocurable norbornene-based compns. for use in stereolithog.)

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

29.64

101.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-5.74

-6.56

STN INTERNATIONAL LOGOFF AT 14:27:22 ON 01 JUN 2009